Microsoft Solutions Partner

Digital & App Innovation
Azure

Microsoft Solutions Partner

Infrastructure
Azure

Specialist
Infra and Database Migration

# Accelerate Growth on Azure Cloud

*Cloud Native Workshop*

blazeclan

# About Blazeclan

Born in Cloud in 2011

750+ Resources
500+ Cloud Certified

End to End Cloud Competencies

Focus on Innovation

Vast Experience Across Domains

500+ Customers Engagements

Culturally Aligned- One Team

Revenue Growth at 50% CAGR

Differentiated Proprietary Frameworks

| | |
|---|---|
| Market Recognition & Compliance Certification | Gartner Magic Quadrant; IDC; ISO 27001; ISO 22301; GDPR; PCI DSS; Great Place To Work. Certified |
| Key Partnerships | CLOUDFLARE; paloalto NETWORKS; HashiCorp; New Relic.; vmware Partner Connect; TREND MICRO; snowflake; databricks |

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- Microsoft Solution Partner - Infrastructure
- Microsoft Solution Partner - Data & AI
- Microsoft Solution Partner - Digital & App Innovation
- Infra & Database Migration Specialization

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- Mentioned in Gartner's Market Guide for Public Cloud Managed & Professional Services, Asia/Pacific 2022
- CRN recognition in MSP500 list in the Pioneer 250 category for 2022
- Ranked 72 in Top 100 Vertical Market MSPs List 2022

# Why Cloud-Native is important?

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Scale to meet any demand

Deliver better apps faster

Ensure Availability

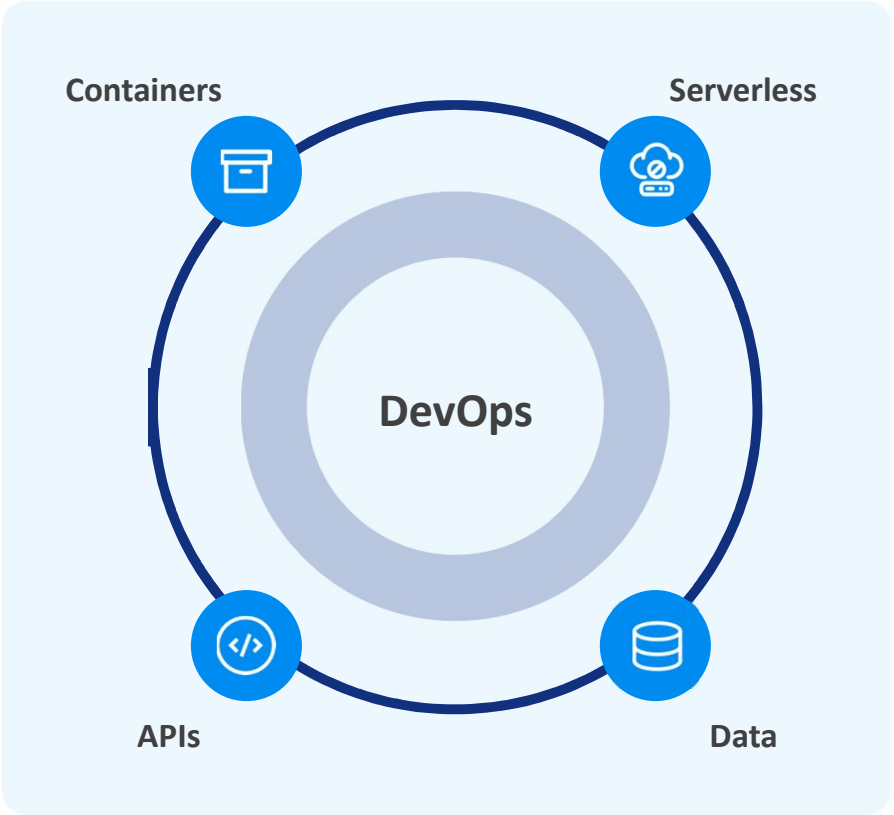
Platform Independence

Achieve greater resiliency

Cost Effective operation

# What is cloud-native?

- Cloud native is the software approach of **building**, **deploying**, and **managing** modern applications in cloud computing environments.
- Cloud-native technologies support **fast** and **frequent** changes to applications without impacting service delivery, providing adopters with an **innovative**, **competitive** advantage.
- Cloud-native applications take advantage of **containers**, **serverless** technology, **microservice-based architectures**, **API-based solutions** and managed databases to enable you to build and iterate solutions faster.



# Common Application Scenarios

Modernize/Migrate/Rehost applications

SaaS delivery

IoT based applications

Geo-distributed applications

Run applications anywhere

AI-powered apps

# Build Cloud Native on Azure

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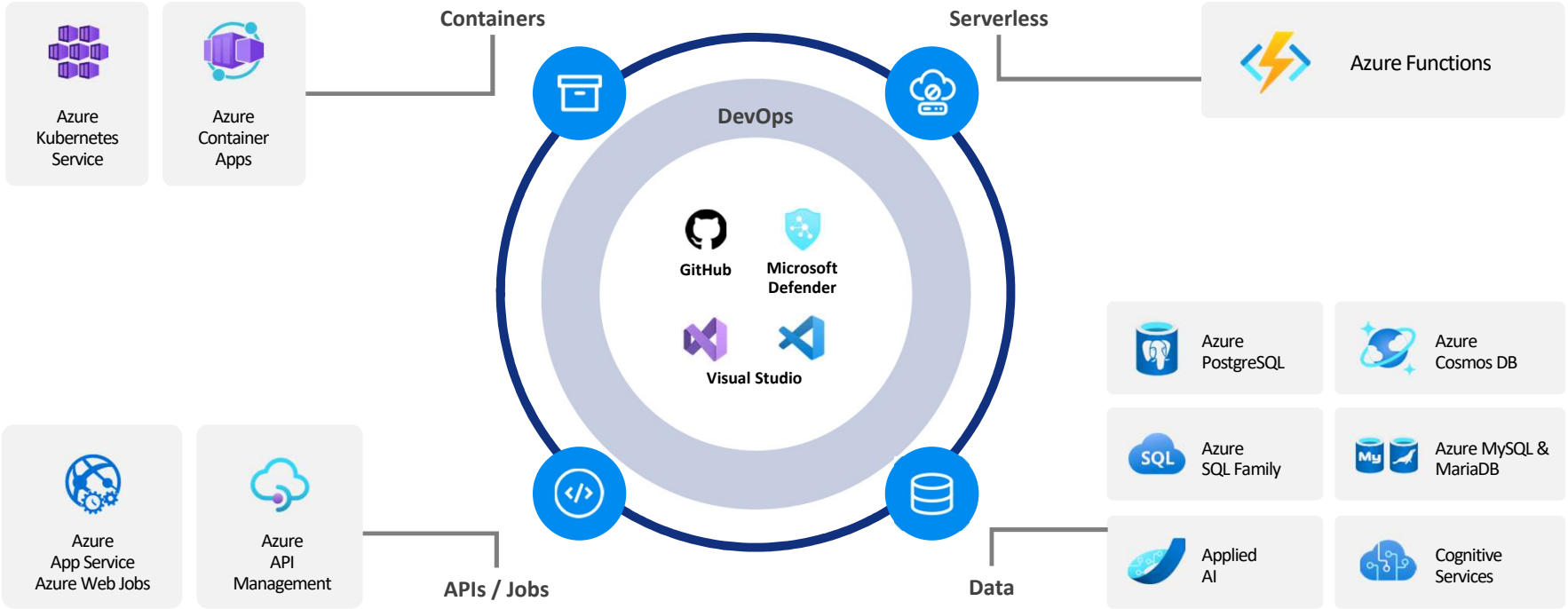


**Cloud Operations Anywhere**

**Azure Arc**

# Build Cloud Native on Azure

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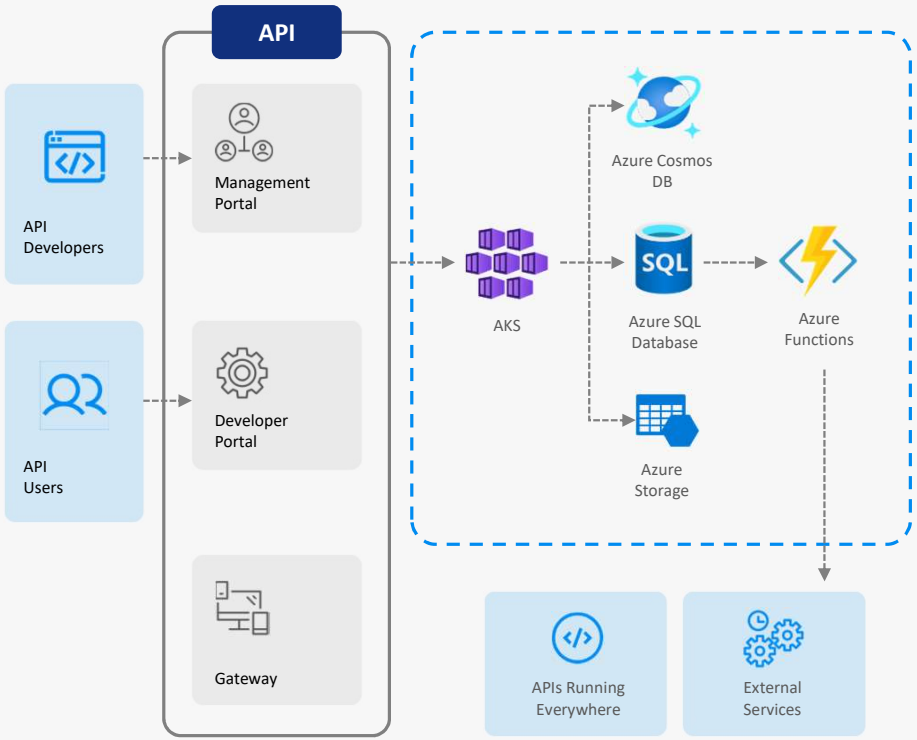
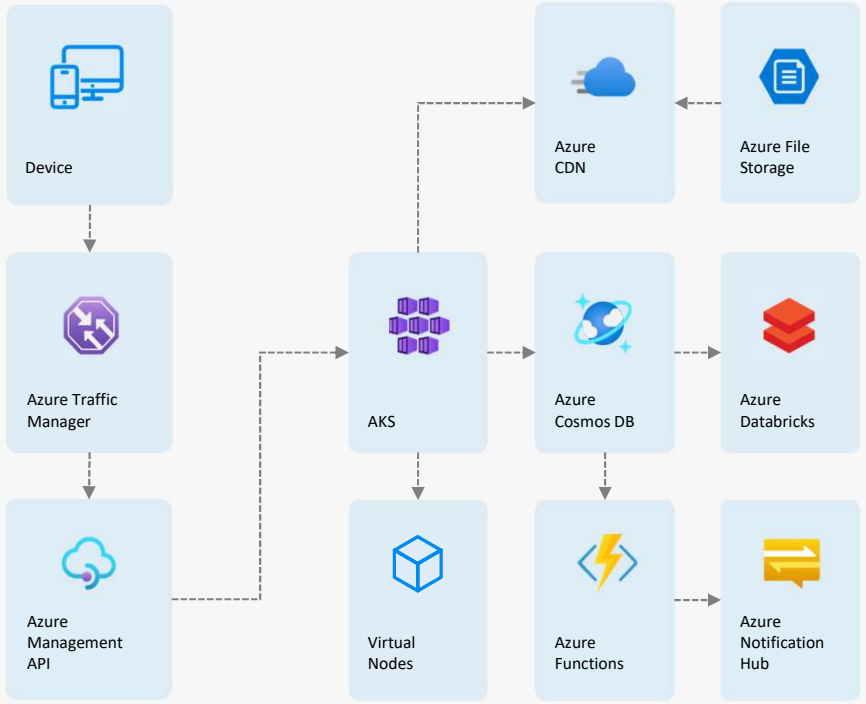
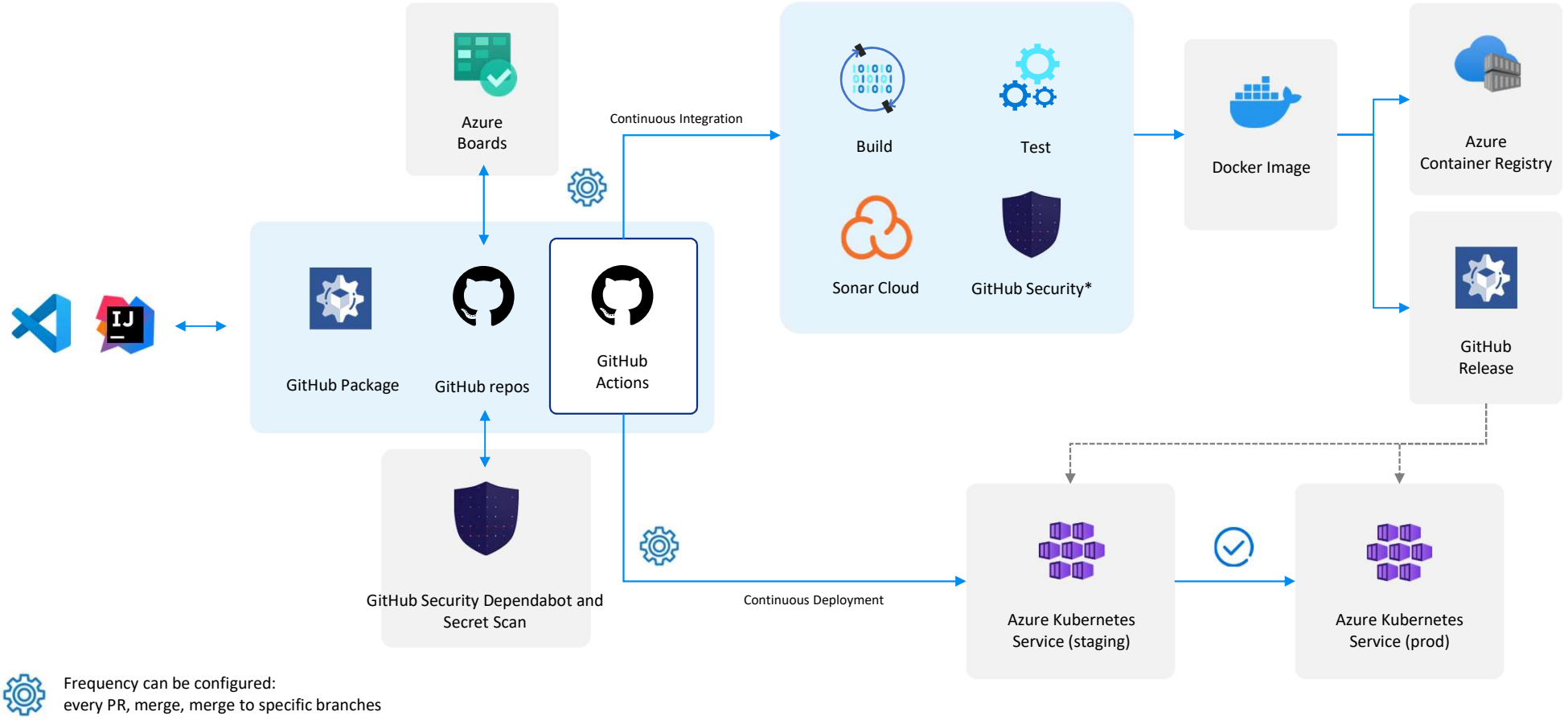
## API-first SaaS Business Model




## Business Critical Application



# DevSecOps Architecture



# About Azure Kubernetes Service

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**Azure Kubernetes Service**

## Efficient Management

Kubernetes is the de-facto open-source platform for container orchestration but requires a lot of overhead in cluster management. AKS helps manage overhead reducing the complexity of deployment and management tasks

## About AKS

**Managed Kubernetes Service**

The fastest way to spin up managed Kubernetes clusters

## RBAC Support

AKS supports RBAC through Azure Active Directory, provide role-based access, security, and monitoring of Kubernetes architecture based on identity and group membership

## Scaling

Horizontal pod scaling increases number of containers in a pod. This manages your workloads in Kubernetes without having to worry about them becoming too large or small at any given time

Cluster auto scale automatically increases the number of nodes if pods are unable to schedules due to resource constraints.

## Compliance

Compliant with the standards and regulatory requirements such as System and Organization Controls (SOC), HIPAA, ISO, and PCI DSS

## Monitoring

Kubernetes metrics server, which provides basic resource consumption information about the memory and CPU consumption of pods and nodes. Azure Monitor additionally offers various pre-configured data points to monitor the AKS cluster..

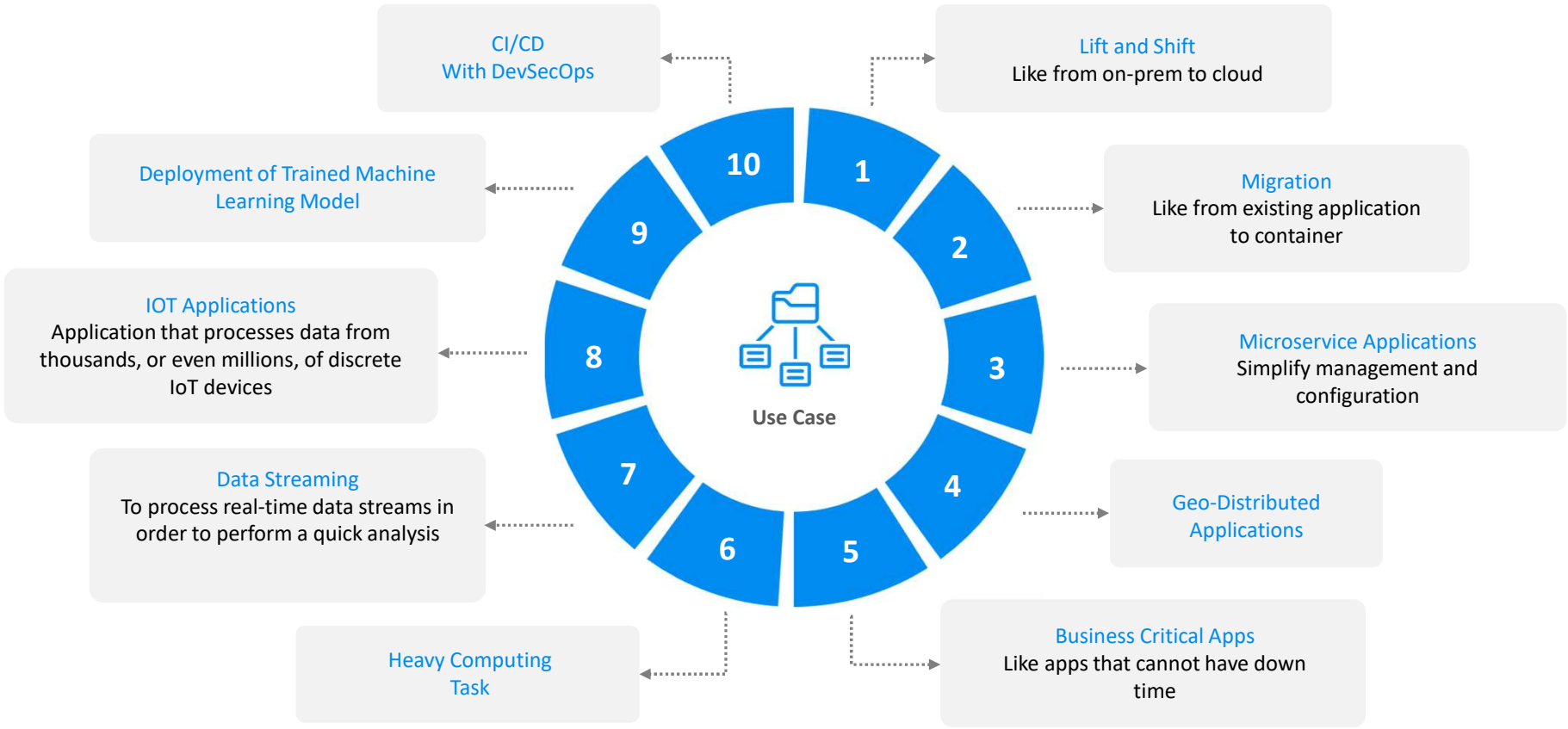
## Efficient Resource Utilization

Azure Kubernetes Service offers provisioning, scaling, and upgrades of resources as per requirement or demand without any downtime in the Kubernetes cluster..

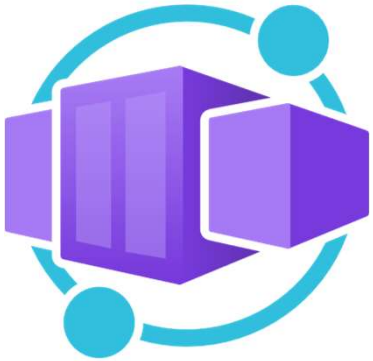
## Other Features

- Seamless DevSecops with CI/CD integration
- Available in more regions
- Custom scheduling and self healing
- Run any workload
- Quicker development and integration

# Azure Kubernetes Use Cases



# Azure Container Service



## Serverless containers for microservices

Build
modern apps
on open source

Focus
on apps, not
infrastructure

Scale
dynamically
based on
events

# Azure Container Service Use Cases

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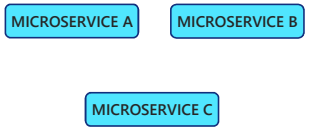
| Microservices | Public API endpoints | Web Apps | Event-driven processing | Background processing |
|---|---|---|---|---|
|  |  |  |  |  |
| Microservices architecture with the option to integrate with Dapr | E.g., API app with HTTP requests split between two revisions of the app | E.g., Web app with custom domain, TLS certificates, and integrated authentication | E.g., Queue reader app that processes messages as they arrive in a queue | E.g., Continuously running background process transforms data in a database |
| Individual microservices can scale independently using any KEDA scale triggers | Scaling is determined by the number of concurrent HTTP requests | Scaling is determined by the number of concurrent HTTP requests | Scaling is determined by the number of messages in the queue | Scaling is determined by the level of CPU or memory load |

AUTO-SCALE CRITERIA

# Azure App Service

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| Ecommerce | Mobile Apps | Time Triggered Services | APIs | Line of Business Apps |
|---|---|---|---|---|

**Apps**

APIM | Mobile Apps | Logic Apps | API Apps | Notification Hub | Web Apps | Azure Functions

**Services**

## Azure App Service

- Fully Managed Platform
- Developer Experience

**Platform**

- Auto Scale
- OS & Framework patching
- Load balancing
- Superior DevOps
- OS and Framework patching
- Multiple Languages & Framework support – .NET, .NET Core, Java, Ruby, Node.js, PHP, or Python
- Enterprise grade SLA
- Security and Compliance
- On-premise Connectivity
- High availability, DR & site resiliency
- RBAC with Azure Active Directory
- Networking with SSL support

# Azure App Service Family

## Web Apps

Web Apps that scale with your business

## Mobile Apps

Build Mobile Apps for any Device

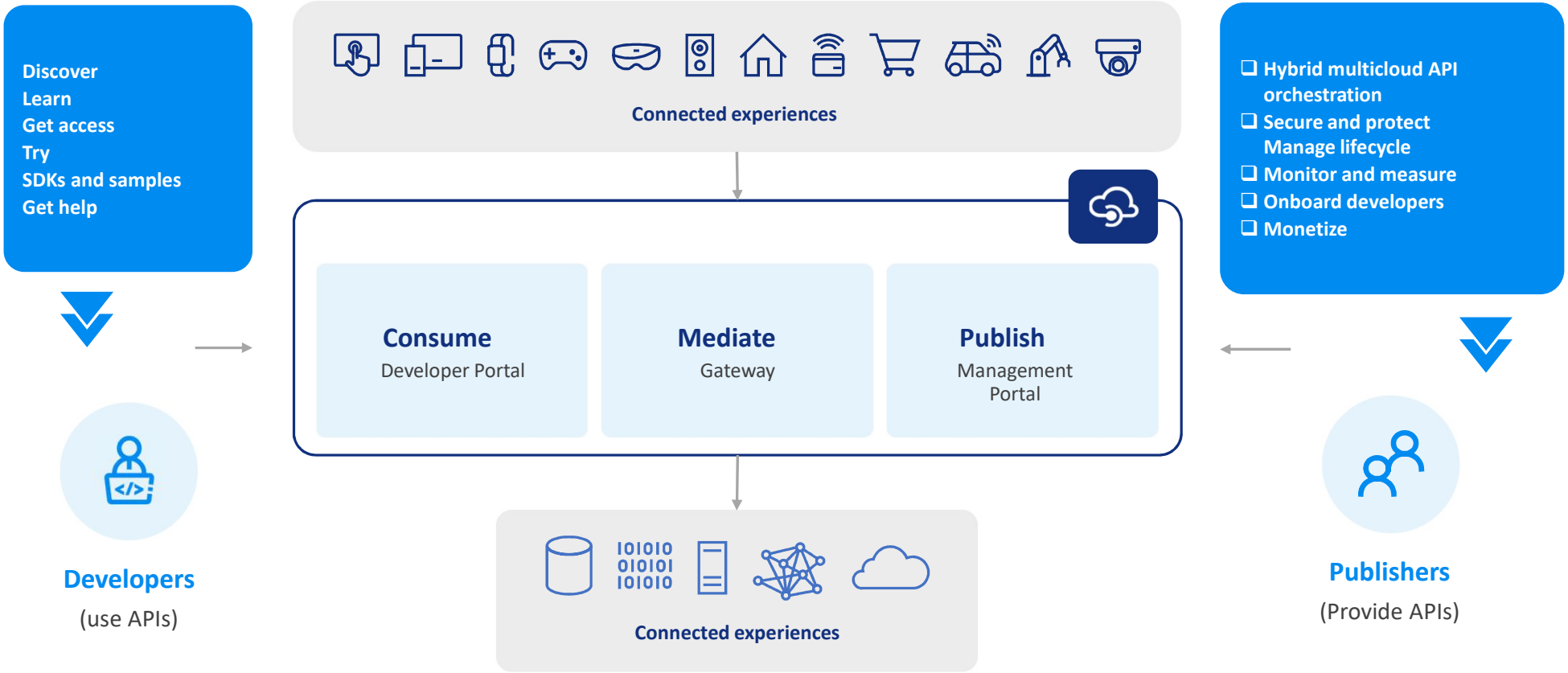
## Logic Apps

Automate Business Processes across SaaS and on-premises

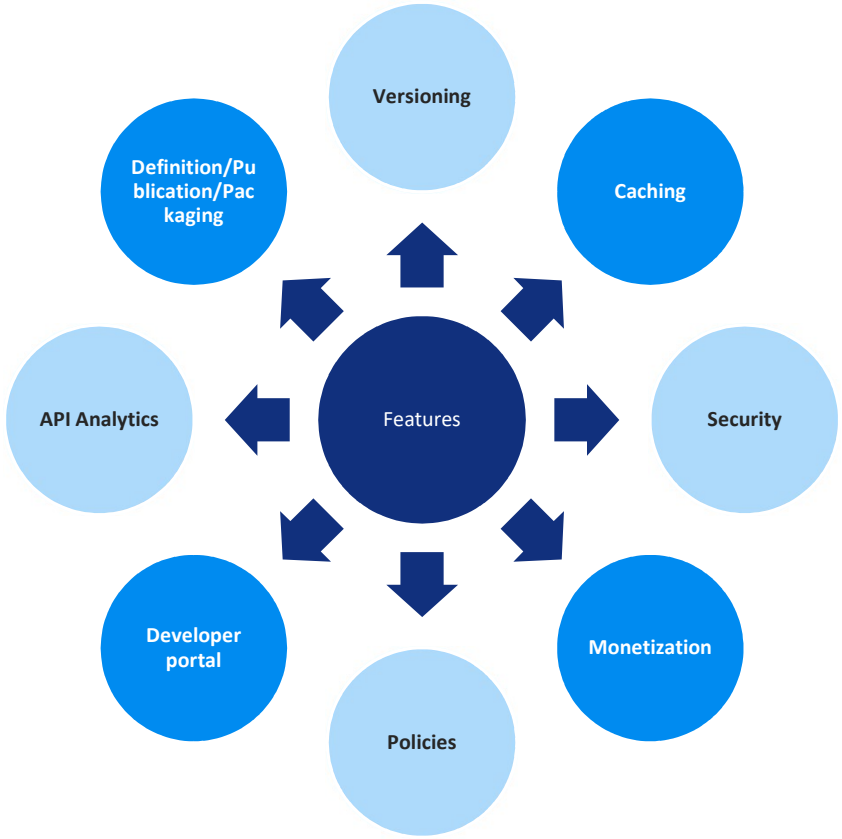
## API Apps

Build and consume APIs in the cloud

# Azure API Management

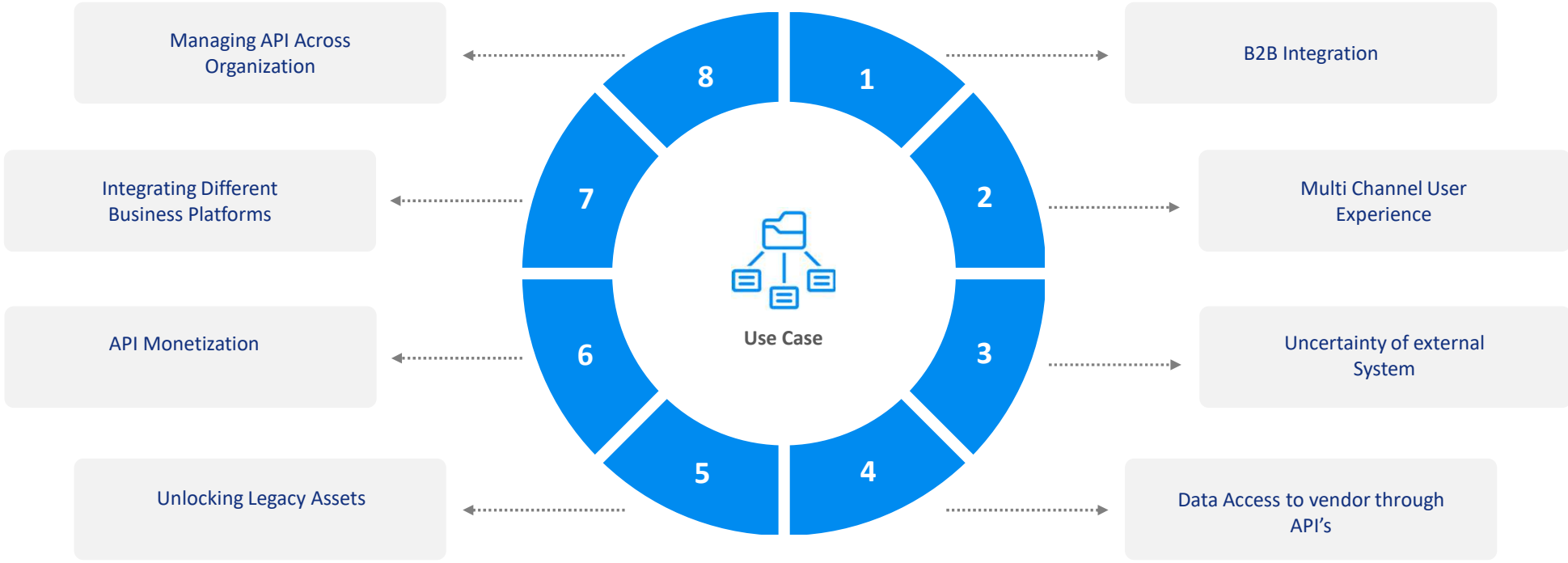


# Azure API Management Use Cases




1. Microsoft Azure API Management has a range of security options that add an extra barrier around your sensitive data. These methods include authorization keys, back-end API security, client certificates, and APIM to back-end API Mutual certification.
2. Tracking APIs for errors in real time
3. Reviewing usage analytics and improving APIs. It's important to know what's going on with your APIs—which consumer or app is calling which API and how often. It's also essential to know how many APIs have failed and why
4. Onboarding new users and creating great developer experience to understand APIs and try them out before usage.
5. Securely expose services hosted on and outside of Azure as APIs
6. Abstract backend architecture diversity and complexity from API consumers
7. Support API Monetization - Controlling and billing traffic that goes through your APIs. API management allows you to define usage contracts based on metrics, like the number of API calls. Consumers can be segmented and differentiated access tiers, and service quality can be offered to different segments.

# Azure API Management Features



# Azure Data Capabilities

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**Azure SQL Family**

**Azure PostgreSQL**


**Azure MySQL & MariaDB**

**Azure Cosmos DB**

**Azure Cache for Redis**

### Fully managed

Focus on your applications, not your infrastructure with **fully managed and intelligent database services**.

### Limitless scale

Build for future growth with **near-limitless, dynamic scaling** plus guaranteed high availability around the world.

### Open and flexible

**Choose the engine, deployment, resources languages and offers** that fit your needs.

### Intelligent security

Develop secure apps in the cloud with **policy-based security and compliance** from the world's most trusted cloud.


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